

Inside Wallops

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NASA Selects Student Experiments to Fly on Sounding Rocket

NASA has selected 10 student experiments from across the country to fly on a sounding rocket mission June 7 from the Wallops Island.

During the weeks leading up to the launch, students and their teachers will work with engineers and technicians at Wallops to prepare their experiments for flight.

The student experiments will be flown on a single stage Orion suborbital sounding rocket.

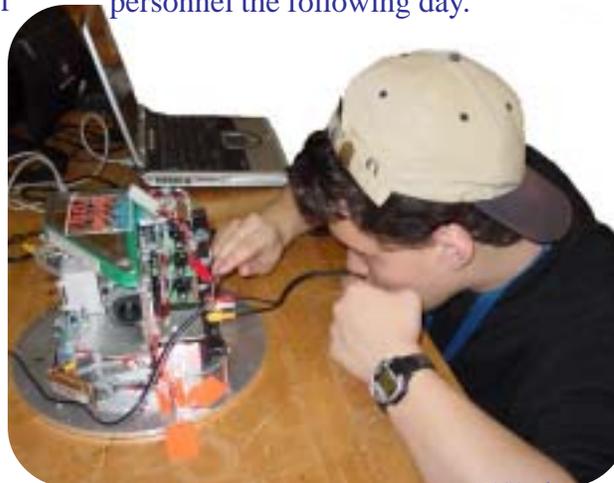
In its ninth year, this program provides students the unique opportunity to participate in all aspects of a science mission.

Five of the experiments will fly in the main body of the rocket's payload section, called the Suborbital Student Experiment Module, (SEM), while the other five will be placed in the nosecone.

Launched early in the morning, the 20-foot rocket is expected to carry the experiments more than 25 miles above the Earth.

After descending by parachute and landing in the Atlantic Ocean, the experiments will be recovered and returned to the students later in the day.

The students will then examine and analyze experiment data and present the preliminary findings to NASA personnel the following day.



NASA Photo
A student examines an experiment on a previous Sub-SEM mission.

"The students design the experiment, build the hardware, participate in the launch process, support removing the experiments from the payload after

launch and recovery, analyze the data and present their results," said Phil Eberspacher, chief of the NASA Sounding Rockets Program Office at Wallops.

"This will be an experience they remember all their life and hopefully will guide them into science and engineering careers," added Eberspacher.

Wireless communications, magnetic fields, fluids and payload temperatures during flight are the focus of the main payload experiments.

Students also will study the effects of the flight environment, such as radiation and high gravitational forces, on a variety of materials placed in the nosecone and the payload section.

Approximately 40 students and teachers are expected to attend flight week activities at Wallops, June 5 through 8.

While at Wallops they will receive instruction in rocketry and electronics and tour the NASA rocket, scientific balloon and aircraft facilities.

The schools and organizations selected are:

Columbus High School, Columbus, Ga. -- (2 experiments)

Glenbrook North High School, Northbrook, Ill.

Parkside High School, Salisbury, Md.

Old Dominion University, Norfolk, Va.

Harriet Tubman School, Dolton, Ill.

Key Peninsula Middle School, Lakebay, Wash.

Wendover High School, Wendover, Utah

Graham High School, St. Paris, Ohio.

Cub Scout Pack 151, Salisbury, Md.

Wallops Shorts.....

In the News

Eastern Shore Post, "Arcadia Middle School Students Will Take Part in Today's Wallops Launch"

Eastern Shore News, "Arcadia High Fares Well at Robotics Competition"

Spring is here!



Easter Egg Hunt
April 8 at the Pavilion
11 a.m. to 1 p.m.

For children up to 11 years old. The Easter bunny asks that children bring their own baskets to collect eggs. Hot dogs, chips, and sodas will be available at no charge.

In order to give the Easter bunny and Security an idea of how many to expect, email the Lead Bunny Helper at Carolyn.Turner-1@nasa.gov the children's', names, ages, and how many adults will accompany them.

All security rules will be in place, so plan ahead. You will have to sign in guests. Sponsored by the Wallops Exchange and Morale Activities Executive Board and the Morale Activities Committee.



Eliminate the Fear of Qualifying for a Mortgage Seminar
Presented by the NASA Federal Credit Union

March 30
5:30 to 7:30 p.m.
Hampton Inn, Chincoteague

This seminar is for first-time home buyers or those who want to move up. Learn the ins and outs of the mortgage process, including what affects your pre-approval, how to strengthen your negotiating power and how to get the house and mortgage you want.



Refreshments will be served; feel free to bring a spouse or guest. Register in the NASA FCU Wallops Branch (N-133), at www.nasafcu.com/seminars or by phone at 1-888-NASA-FCU, x555.

UNDER CONSTRUCTION

Engineering Bldg:

Form up for the second floor topping areas. Topping and diamonds were poured last week. Remobilize to top-out stair towers and begin scaffolding erection for veneer. Roof joists will be set and installation of metal deck will begin. Have begun to receive and stage exterior framing materials and framing in courtyard. Installation of under floor piping on the second floor has begun. Installation of hot and chilled water supply line above the first floor ceiling has begun. Installation of under floor electric distribution and panels on the second floor has begun.



Project Support Facility:

Installation of the new water line has begun and should be complete in the next 2 weeks. In wall electric going in as CMU walls are going up, most walls will be topping out within the next couple of weeks. Underground electric conduit for parking lot lights is being worked on.

Wallops Recycles

In fiscal year 2005, Wallops Flight Facility recycled the following materials:

- Aluminum - 1,891 lbs
- Antifreeze - 2,548 gals
- Batteries - 6,990 lbs
- Construction and Demolition Debris - 1,657,800 lbs
- Cardboard - 107,560 lbs
- Cooking Grease - 1,650 gals
- Drums - 4,000 lbs
- Electronics (scrap) - 5,800 lbs
- Florescent Lamps - 406 lbs
- Lumber - 47,240 lbs
- Magnetic Tape - 3,875 lbs
- Plastic - 803 lbs
- Scrap Metal - 212,000 lbs
- Silver Sludge - 680 lbs
- Solvents - 560 lbs
- Tires (1 for 1 swap) - 127 units
- Toner Cartridges - 657 lbs
- Used Oil - 1,800 gals
- White Paper - 50,880 lbs

Are you interested in going to Atlantic City?

The Navy at Wallops is sponsoring 3-day, 2-night bus trips to Atlantic City

(Sunday through Tuesday).

The cost is \$189.00 per person, which includes transportation, hotel, baggage handling, \$30 in slot bonuses and \$20 in food coupons.

The following dates are available:

March 26-28

April 9-11

April 23-25

May 7-9

May 21-23

For further information call Chief Sexstella at 757 854-1366.

Inside Wallops is an official publication of Goddard Space Flight Center and is published by the Wallops Office of Public Affairs, Extension 1584, in the interest of Wallops employees. Recent and past issues of *Inside Wallops* also may be found on the NASA Wallops Flight Facility homepage: www.wff.nasa.gov

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